

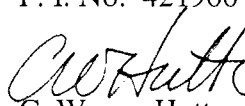
ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE** EDS-441(26) Coffee County **OFFICE** Preconstruction  
P. I. No. 421900  
**DATE** January 3, 2000  
**FROM**   
C. Wayne Hutto, Assistant Director of Preconstruction  
**TO** SEE DISTRIBUTION

**SUBJECT REVISED PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

CWH/cj

Attachment

**DISTRIBUTION:**

Tom Turner  
David Mulling  
David Studstill (ATTN: Harvey Keepler)  
Jerry Hobbs  
Herman Griffin  
Georgene Geary (ATTN: Michael Henry)  
Marion Waters  
Marta Rosen  
David Crim

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE EDS-441(26) -US 441/SR 31 Improvements OFFICE Environment/Location  
Coffee County

P.I. No. 421900

DATE November 23, 1999

FROM *David E. Studstill EPS*  
David E. Studstill, P.E., State Environment/Location Engineer

TO Wayne Hutto, P.E., Assistant Director of Preconstruction

SUBJECT Revised Project Concept Report

Project EDS-441(26), in Coffee County, would widen and reconstruct US 441/SR 31 from the intersection of US 441/SR 31 and CR 416/Jardine Road in Coffee to just south of the Broxton city limits for a project length of 5.22 miles.

**Approved Concept:** The project would begin approximately 0.7 mile north of the Douglas city limits at CR 416. The existing typical section at the beginning is four 12-foot lanes with a 14-foot flush median. This section would be retained for about 0.5 mile, and then the median would widen to a 44-foot grassed median. New lanes would be added parallel and east of the existing lanes. The project would continue northward for approximately 4.8 miles to the southern city limits of Broxton, where the project would end. This project ties into proposed project EDS-441(35) at the ending terminus.


**Proposed Revised Concept:** It is proposed to revise the 55 MPH speed design to 55 MPH desirable which meets 65 MPH minimum. This will allow a posted speed limit of 65 MPH. It is also proposed to revise the concept based upon the latest environmental studies.

The project would begin at the intersection of US 441/SR 31 and CR 416/Jardin Road in Coffee county and would reconstruct US 441/SR 31 symmetrically using a 14 foot flush median with four 12-foot lanes of pavement. It would continue northward to approximately 1,100 feet south of CR 415/Leroy Sapp Road. This concept would reduce displacements, but would impact a historical resource along the east side of the existing roadway just south of CR 415/Leroy Sapp Road resulting in a programmatic 4F. There, the median would begin making a transition to a 44 foot grassed median. At a point just south of the 17 mile Creek bridge, the concept would utilize the existing pavement and add two 12-foot lanes, widening to the east side, while continuing northward to just north of CR 168/Tickle Toe Road. This concept would avoid impacting a historical resource along the west side of the existing roadway just north of CR 415/Leroy Sapp Road. The alignment would then shift to the west side adding four lanes of roadway with a 44 foot grassed median, while utilizing the existing right of way along the east side. This shift would minimize impacts to wetlands and residential displacements. The project would continue northward and end approximately 3,300 feet north of CR 357/Currin Road. The existing bridge at 17 Mile Creek would be utilized and a new one built parallel to the existing bridge along the east side.

Estimated Cost:	Proposed	Approved	Prog. Date
Construction (incl.E&C + infl.)	\$11,150,000	\$ 9,386,000	Long Range
Right-of-way	\$ 2,246,600	\$ 724,000	
Utilities	not available	\$ 13,000	

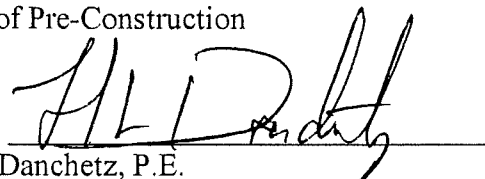
**Recommendation:** It is recommended that the proposed revision to the concept be approved for implementation

Concur:

  
Thomas L. Turner, P.E.

Director of Pre-Construction

Approve:

  
Frank L. Danchetz, P.E.  
Chief Engineer

DES/ERS

Attachments: Location Map  
Cost Estimate  
Typical Sections



**PRELIMINARY COST ESTIMATE**  
**OFFICE OF ENVIRONMENT/LOCATION**

**P.I. NO:** 421900

**DATE:** 11-09-1999

**PROJECT NO:** EDS-441(26)

**PROJECT NAME:** SR 31 Improvements

**COUNTY:** COFFEE

**PROJECT DESCRIPTION:**

From just north of Douglas to just south of Broxton

City Limits.

**PROJECT LENGTH:** 5.220 MILES

**SECTION LENGTH:** 0.600 MILES

**TYPICAL SECTION:**

URBAN WIDENING-2 TO 4 LANES WITH 14' FLUSH MEDIAN (62' PAV'T)

PROPOSED R/W = 180 ft

**EXISTING ROADWAY (If Applicable):**

US 441/SR 31

**TRAFFIC:**

**INITIAL DESIGN YEAR:** 1997

**DAILY VOLUME (AADT):** 3,100

**FINAL DESIGN YEAR:** 2017

**DAILY VOLUME (AADT):** 5,200

**COMMENTS:**

One of two cost estimates earth work will be included on 2nd  
estitmate. Soil support value of 4.

**PREPARED BY:** Radney Simpson LE I

## PROJECT COSTS

### A. RIGHT - OF - WAY

1. PROPERTY (Land and Easements)	\$	0
2. DISPLACEMENTS	\$	0
3. OTHER COST	\$	0
<b>SUBTOTAL</b>	<b>\$</b>	<b>0</b>

### B. REIMBURSABLE UTILITIES

1. RAILROAD	\$	0
2. TRANSMISSION LINES	\$	0
3. SERVICES	\$	0
<b>SUBTOTAL</b>	<b>\$</b>	<b>0</b>

### C. MAJOR STRUCTURES

1. WALLS	\$	0
<hr/>		
2. BRIDGE STREAM CROSSING	\$	0
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3. BRIDGE OVER/UNDERPASS	\$	0
<hr/>		
4. BOX CULVERTS	\$	0
<hr/>		
<b>SUBTOTAL</b>	<b>\$</b>	<b>0</b>

### D. GRADING AND DRAINAGE

#### 1. EARTHWORK

a. UNCLASSIFIED EXCAVATION SOIL	\$	0
0 CY @ \$3.35		
b. UNCLASSIFIED EXCAVATION ROCK	\$	0
0 CY @ \$4.00		
c. BORROW EXCAVATION	\$	0
0 CY @ \$4.00		

#### 2. DRAINAGE

a. MINOR DRAINAGE (Including Cross Drain Pipes & Longitudinal System)	\$	108,000
0.600 MILES @ \$180,090		
b. CURB AND GUTTER	\$	62,000
6,336 LF @ \$9.80		
<b>SUBTOTAL</b>	<b>\$</b>	<b>170,000</b>

## PROJECT COSTS

con't.

### E. BASE AND PAVING

1. GRADED AGGREGATE BASE	\$	117,000
10.00" -- 9,039 T @ \$12.89		
2. ASPHALT PAVING		
a. ASPHALTIC CONCRETE "E"	\$	98,000
1.50" -- 2,793 T @ \$35.05		
b. ASPHALTIC CONCRETE "B"	\$	187,000
3.00" -- 5,586 T @ \$33.50		
c. ASPHALTIC CONCRETE BASE	\$	0
0.00" -- 0 T @ \$33.93		
d. BITUMINOUS TACK COAT	\$	2,000
1,881 G @ \$0.84		
3. CONCRETE PAVING	\$	0
4. OTHER PAVING	\$	40,000
SUBTOTAL	\$	444,000

### F. LUMP ITEMS

1. TRAFFIC CONTROL	\$	17,000
2. CLEARING AND GRUBBING	\$	62,000
13 ACRES @ \$4,700		
3. LANDSCAPING	\$	5,000
0.600 MILES @ \$8,520		
4. EROSION CONTROL	\$	7,000
0.600 MILES @ \$12,000		
5. DETOURS (Including Temporary Bridges)	\$	0
SUBTOTAL	\$	91,000

### G. MISCELLANEOUS

1. SIGNING/STRIPING	\$	29,000
0.600 MILES @ \$47,500		
2. GUARDRAIL	\$	0
0 LF @ \$10.88 + 0 Anchors @ \$1,632.38		
3. OTHER	\$	69,000
0.600 MILES @ \$114,900		
SUBTOTAL	\$	98,000

### H. SPECIAL FEATURES

\$ 0

## ESTIMATE SUMMARY

		SECTION COST (per mile)
A. RIGHT-OF-WAY	\$ 0	\$ 0
B. REIMBURSABLE UTILITIES	\$ 0	\$ 0

### CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	\$ 0	
D. GRADING AND DRAINAGE	\$ 170,000	
E. BASE AND PAVING	\$ 444,000	
F. LUMP ITEMS	\$ 91,000	
G. MISCELLANEOUS	\$ 98,000	
H. SPECIAL FEATURES	\$ <u>0</u>	
 SUBTOTAL CONSTRUCTION COST	 \$ 803,000	\$ 1,338,000
 E. & C. (10%)	 \$ 80,000	
 INFLATION 2 yr(s) @ 5% per year	 \$ <u>90,000</u>	
 TOTAL CONSTRUCTION COST	 \$ 973,000	\$ 1,622,000
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GRAND TOTAL CONSTRUCTION COST	\$ 973,000	\$ 1,622,000

URBAN WIDENING-2 TO 4 LANES WITH 14' FLUSH MEDIAN (62' PAV'T)



**PRELIMINARY COST ESTIMATE**  
**OFFICE OF ENVIRONMENT/LOCATION**

**P.I. NO:** 421900

**DATE:** 11-09-1999

**PROJECT NO:** EDS-441(26)

**PROJECT NAME:** SR 31 Improvements

**COUNTY:** COFFEE

**PROJECT DESCRIPTION:**

From just north of Douglas to just south of Broxton

City/Limits.

**PROJECT LENGTH:** 5.220 MILES

**SECTION LENGTH:** 4.620 MILES

**TYPICAL SECTION:**

RURAL NEW LOCATION-4-LANES WITH 44' DIV MEDIAN (48' PAV'T)

PROPOSED R / W = 250 ft

**EXISTING ROADWAY (If Applicable):**

US 441/SR 31

**TRAFFIC:**

**INITIAL DESIGN YEAR:** 1997

**DAILY VOLUME (AADT):** 3,100

**FINAL DESIGN YEAR:** 2017

**DAILY VOLUME (AADT):** 5,200

**COMMENTS:**

Two of two cost estimates. Earth work is included in this  
estimate for all of unit (26). Soil support value is 4.

**PREPARED BY:** Radney Simpson LE I

## PROJECT COSTS

### A. RIGHT - OF - WAY

1. PROPERTY (Land and Easements)	\$	0
2. DISPLACEMENTS	\$	0
3. OTHER COST	\$	0
<b>SUBTOTAL</b>	<b>\$</b>	<b>0</b>

### B. REIMBURSABLE UTILITIES

1. RAILROAD	\$	0
2. TRANSMISSION LINES	\$	0
3. SERVICES	\$	0
<b>SUBTOTAL</b>	<b>\$</b>	<b>0</b>

### C. MAJOR STRUCTURES

1. WALLS	\$	0
<hr/>		
2. BRIDGE STREAM CROSSING	\$	655,424
Seventeen Mile River 280 ft		
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3. BRIDGE OVER/UNDERPASS	\$	0
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4. BOX CULVERTS	\$	0
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<b>SUBTOTAL</b>	<b>\$</b>	<b>655,000</b>

### D. GRADING AND DRAINAGE

#### 1. EARTHWORK

a. UNCLASSIFIED EXCAVATION SOIL	\$	1,405,000
419,300 CY @ \$3.35		
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b. UNCLASSIFIED EXCAVATION ROCK	\$	0
0 CY @ \$4.00		
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c. BORROW EXCAVATION	\$	718,000
179,500 CY @ \$4.00		
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#### 2. DRAINAGE

a. MINOR DRAINAGE (Including Cross Drain Pipes & Longitudinal System)	\$	379,000
4.620 MILES @ \$82,080		
<hr/>		
b. CURB AND GUTTER	\$	0
0 LF @ \$9.80		
<hr/>		
<b>SUBTOTAL</b>	<b>\$</b>	<b>2,502,000</b>

## PROJECT COSTS

con't.

### E. BASE AND PAVING

1. GRADED AGGREGATE BASE	\$ 1,258,000
10.00" -- 97,574 T @ \$12.89	
2. ASPHALT PAVING	
a. ASPHALTIC CONCRETE "E"	\$ 557,000
1.50" -- 15,896 T @ \$35.05	
b. ASPHALTIC CONCRETE "B"	\$ 1,065,000
3.00" -- 31,793 T @ \$33.50	
c. ASPHALTIC CONCRETE BASE	\$ 0
0.00" -- 0 T @ \$33.93	
d. BITUMINOUS TACK COAT	\$ 9,000
10,703 G @ \$0.84	
3. CONCRETE PAVING	\$ 0
4. OTHER PAVING	\$ 289,000
SUBTOTAL	\$ 3,178,000

### F. LUMP ITEMS

1. TRAFFIC CONTROL	\$ 25,000
2. CLEARING AND GRUBBING	\$ 658,000
140 ACRES @ \$4,700	
3. LANDSCAPING	\$ 236,000
4.620 MILES @ \$51,000	
4. EROSION CONTROL	\$ 222,000
4.620 MILES @ \$48,000	
5. DETOURS (Including Temporary Bridges)	\$ 0
SUBTOTAL	\$ 1,141,000

### G. MISCELLANEOUS

1. SIGNING/STRIPING	\$ 171,000
4.620 MILES @ \$37,000	
2. GUARDRAIL	\$ 0
0 LF @ \$10.88 + 0 Anchors @ \$1,632.38	
3. OTHER	\$ 744,000
4.620 MILES @ \$161,100	
SUBTOTAL	\$ 915,000

### H. SPECIAL FEATURES

\$ 0

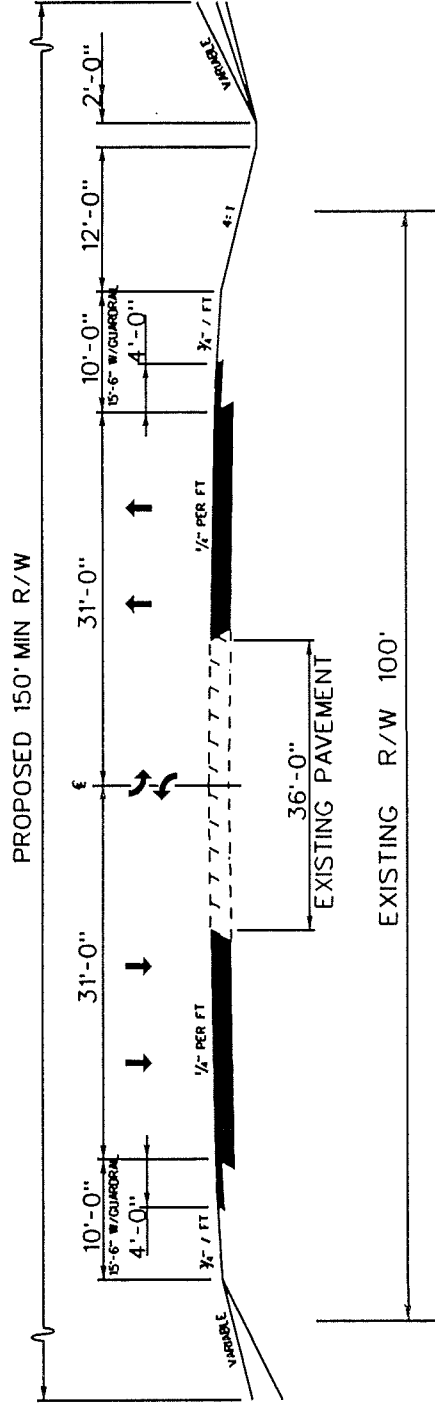
## ESTIMATE SUMMARY

		SECTION COST (per mile)
A. RIGHT-OF-WAY	\$ 0	\$ 0
B. REIMBURSABLE UTILITIES	\$ 0	\$ 0

### CONSTRUCTION COST SUMMARY

C. MAJOR STRUCTURES	\$ 655,000	
D. GRADING AND DRAINAGE	\$ 2,502,000	
E. BASE AND PAVING	\$ 3,178,000	
F. LUMP ITEMS	\$ 1,141,000	
G. MISCELLANEOUS	\$ 915,000	
H. SPECIAL FEATURES	\$ 0	
 SUBTOTAL CONSTRUCTION COST	 \$ 8,391,000	\$ 1,816,000
 E. & C. (10%)	 \$ 839,000	
 INFLATION 2 yr(s) @ 5% per year	 \$ 947,000	
 TOTAL CONSTRUCTION COST	 \$ 10,177,000	\$ 2,203,000
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GRAND TOTAL CONSTRUCTION COST	\$ 10,177,000	\$ 2,203,000

RURAL NEW LOCATION-4-LANES WITH 44' DIV MEDIAN (48' PAV'T)

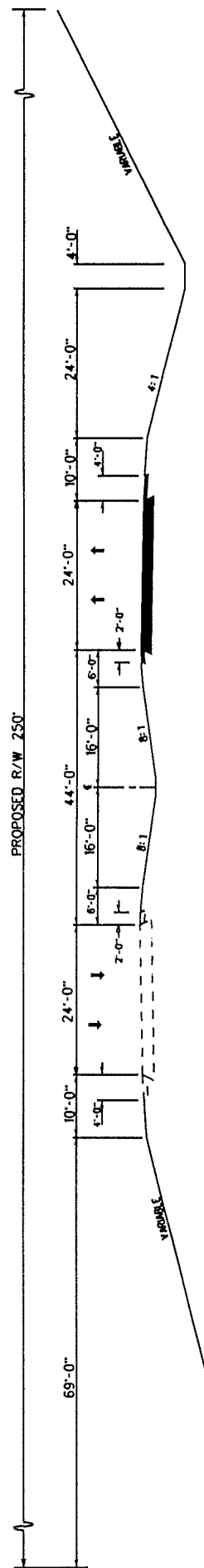


## TYPICAL CROSS SECTION

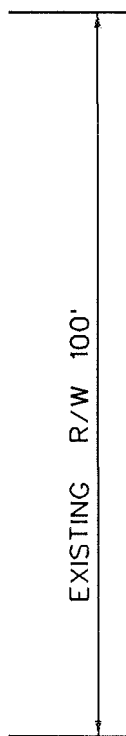
SR 31 IMPROVEMENTS

EDS-441(26) COFFEE CO

FROM THE INTERSECTION OF SR 31/CR 416-JARDIN RD  
TO 1,100 FEET SOUTH OF CR 415/LEROY SAPP RD



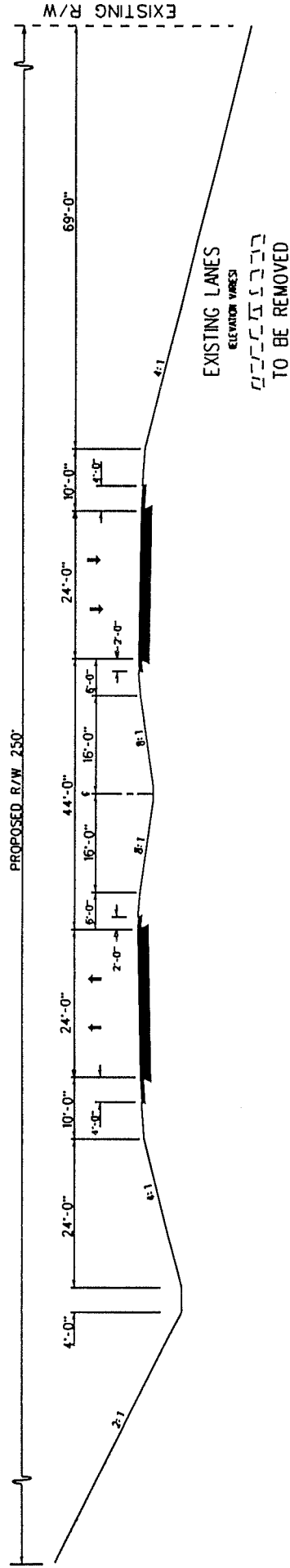
PROPOSED R/W 250'



**TYPICAL CROSS SECTION  
SR 31 IMPROVEMENTS  
EDS-441(26) COFFEE CO**

FROM 1,100 FEET SOUTH OF CR 415/LEROY SAPP RD  
TO JUST NORTH OF CR 168/TICKLE TOE ROAD

**NOT TO SCALE**



## TYPICAL CROSS SECTION

SR 31 IMPROVEMENTS

EDS-441(26) COFFEE CO

FROM JUST NORTH OF CR 168/TICKLE TOE ROAD  
TO 3,300 FEET NORTH OF CR 357/CURRIN ROAD

NOT TO SCALE

PROJECT NUMBER/COUNTY: EDS-44(26) COFFEE

P. I. NUMBER: 421900

This project is identified as a component in the Governor's Road Improvement Program (GRIP) and funding is anticipated to be with state funds only. Therefore, this project is not identified in the State Transportation Improvement Program.

Marta V. Riser  
STATE TRANSPORTATION PLANNING ADMINISTRATOR

DATE: 12/3/99



ROAD DESIGN

REVISION REQUEST  
for the  
CONSTRUCTION WORK PROGRAM

In accordance with the Board Resolution dated August 16, 1973, Board approval is requested to revise the Construction Work Program for the project and activity outlined below:

Action Requested: CHANGE IN DESCRIPTION AND COST ESTIMATE

## PROJECT DATA

County	Project No. P.I. No.	Type Work
COFFEE	EDS-441 (26) 421900	WIDENING
Description: SR 31/US 441 FM CR 416 NORTH TO BROXTON SOUTH CITY LIMITS		
Project Length = 4.80 Miles		

## FUNDING INFORMATION

Estimated Cost (\$1,000's)	DOT Share	Other Share	Fiscal Year	Cong. District	Field District
PE	\$0		-		
ROW	\$603		1994	8	4
CONST	\$7,822	\$7,822	1995		
Fund 1 = EDS					
Fund 2 = 315					

## REASON FOR REVISION:

Approved Project Concept Report  
This project is being shortened by 0.93 mile on the south end.

RECOMMENDED

*G. C. Lewis*  
\_\_\_\_\_  
DIRECTOR, DIVISION OF PLANNING AND PROGRAMMING

RECOMMENDED

*Wayne Shackelford*  
\_\_\_\_\_  
COMMISSIONER

